

List of Plants

C ALPHA-TERPINENE

Chemid

ALPHATERPINENE

Dosage

LD50=1,680 mg/kg (orl rat) Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253.

*Unless otherwise noted all references are to Duke, James A. 1992. Handbook of phytochemical constituents of GRAS herbs and other economic plants. Boca Raton, FL. CRC Press.

Plant	Plant Part	Low PPM	High PPM	StdDev	*Reference
Achillea millefolium	Leaf	2.0	1120.0	0.27	*
Acinos alpinus	Shoot	--	0.5	-0.48	Velasco-Negueruela,A., Perez-Alonso,M.J., Jiminez,S.M. and Garcia,F.M. 1993. The Volatile Constituents of Acinus alpinus (L.) Moench ssp. meridionalis (Nyman). P.W. Ball Growing in Spain. Flav. & Frag. J. 8:127-130.)
Acinos alpinus	Shoot	--	0.5	-0.48	Velasco-Negueruela,A., Perez-Alonso,M.J., Jiminez,S.M. and Garcia,F.M. 1993. The Volatile Constituents of Acinus alpinus (L.) Moench ssp. meridionalis (Nyman). P.W. Ball Growing in Spain. Flav. & Frag. J. 8:127-130.)
Acorus calamus	Plant	--	--		*
Agathosma betulina	Leaf	--	--		*
Agathosma betulina	Leaf Essent. Oil	--	--		*
Ageratum conyzoides	Plant	4.0	30.0	-0.46	*
Aloysia citrodora	Plant	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Anethum graveolens	Essential Oil	--	--		*
Anethum graveolens	Seed Essent. Oil	--	--		*
Anethum graveolens	Leaf	0.1	2100.0	0.77	*
Anethum graveolens	Shoot Essent. Oil	--	3400.0	-0.72	*
Angelica archangelica	Root Essent. Oil	--	--		*
Angelica archangelica	Root	--	6.0	-0.66	*
Angelica archangelica	Fruit	--	--		*
Apium graveolens	Seed Essent. Oil	--	1000.0	-1.01	*
Apium graveolens	Leaf	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Apium graveolens	Leaf Essent. Oil	--	--		*
Apium graveolens	Fruit Essent. Oil	--	1000.0	-0.83	*
Artemisia annua	Leaf	4.0	11715.0	5.74	*

<i>Artemisia capillaris</i>	Oil				
<i>Artemisia salsolooides</i>	Shoot	--	2650.0	6.95	V. Kaul, P. Weyerstahl, H. Wahlberg, H. Marschall, (1992); Volatile constituents of the essential oil and the absolute of <i>Aremisia salsolooides</i> Willd. from Ladakh, Flavour and Fragrance journal, Vol.7, 299-305.
<i>Aspalathus linearis</i>	Leaf Essent. Oil	--	--		*
<i>Barosma betulina</i>	Leaf	--	--		*
<i>Boswellia sacra</i>	Resin Essent. Oil	--	--		Abdel Wahab, S. M., Aboutabl, E. A., El-Zalabani, S. M., Fouad, H. A., De Pooter, H. L., El-Fallaha, B. 1987. The Essential Oil of Olibanum. Plant Med. 53 (4): 382-384.
<i>Boswellia serrata</i>	Essential Oil	--	--		*
<i>Brassica oleracea</i> var. <i>capitata</i> l.	Shoot	--	14.0	-0.44	*
<i>Callicarpa americana</i>	Leaf	--	0.55	-0.31	*
<i>Carica papaya</i>	Fruit	--	--		*
<i>Carum carvi</i>	Seed	6.0	12.0	-0.51	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Chamaemelum nobile</i>	Plant	--	--		*
<i>Chrysanthemum parthenium</i>	Shoot	--	45.0	-0.36	Hendriks, H., Bos, R., and Woerdenbag, H. J. 1996. The Essential Oil of <i>Tanacetum parthenium</i> (L.) Schultz-Bip. Flavor and Fragrance Journal 11(6): 367-71.
<i>Chrysanthemum x morifolium</i>	Plant	6.0	24.0	-0.47	Wealth of India.
<i>Cinnamomum verum</i>	Stem Bark	--	--		*
<i>Cinnamomum verum</i>	Root Bark	--	--		*
<i>Cinnamomum camphora</i>	Leaf	--	24.0	-0.3	*
<i>Cinnamomum verum</i>	Bark Essent. Oil	--	--		*
<i>Cinnamomum verum</i>	Leaf	90.0	180.0	-0.22	*
<i>Cinnamomum aromaticum</i>	Plant	--	--		*
<i>Cinnamomum verum</i>	Leaf Essent. Oil	--	--		*
<i>Cinnamomum verum</i>	Plant	42.0	168.0	-0.25	*
<i>Cistus ladaniferus</i>	Leaf	2.0	140.0	-0.24	*
<i>Citrus aurantiifolia</i>	Fruit	--	80.0	-0.01	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Citrus limon</i>	Petiole	--	8.0		*
<i>Citrus reticulata</i>	Fruit	0.7	1.0	-0.45	*
<i>Citrus sinensis</i>	Fruit	1.0	2.0	-0.45	*
<i>Citrus limon</i>	Pericarp	--	--		Jim Duke's personal files.
<i>Citrus aurantium</i>	Leaf	--	1.0	-0.31	*
<i>Citrus paradisi</i>	Pericarp	--	1.0		*
<i>Citrus limon</i>	Essential Oil	--	70.0	-0.78	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Coleus barbatus</i>	Stem Essent. Oil	--	4000.0		Jim Duke's personal files.
<i>Coleus barbatus</i>	Leaf Essent. Oil	--	4000.0	-0.4	Jim Duke's personal files.
<i>Coriandrum sativum</i>	Essential Oil	--	--		*

sativum	Essent. Oil				
Coriandrum sativum	Fruit	1.0	15.0	-0.38	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Coridothymus capitatus	Shoot	--	130.0	-0.12	Lagouri, V., Blekas, G., Tsimidou, M., Kokkini, S., and Boskou, D. 1993. Composition and Antioxidant Activity of Essential Oils from Oregano Plants Grown Wild in Greece. Z. Lebensm Unters Forsch 197: 20-23.
Crocus sativus	Silk Stigma Style	--	--		*
Cuminum cyminum	Fruit	--	27.0	-0.31	*
Cuminum cyminum	Seed Essent. Oil	--	5000.0	-0.75	*
Cuminum cyminum	Seed	--	27.0	-0.49	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Cunila origanoides	Shoot	--	644.0	1.32	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Curcuma longa	Rhizome	--	23.0	-1.0	*
Curcuma longa	Leaf	--	37.0	-0.29	*
Daucus carota	Seed	20.0	40.0	-0.48	*
Daucus carota	Root	--	28.0	-0.45	*
Elettaria cardamomum	Fruit	21.0	60.0	-0.12	Duke, J. A. and duCellier, J. L. 1993. CRC Handbook of Alternative Cash Crops. CRC Press. Boca Raton, FL 33431. 536 pp. US \$312.50.
Elettaria cardamomum	Root Essent. Oil	--	7000.0	-0.65	*
Elsholtzia polystachya	Leaf	--	0.2	-0.31	Mathela,C.S., Melkani,A.B., Bisht,J.C., Pant,A.K., Bestmann,H.J., Erler,J., Kobold,U., Rauscher,J. and Vostrowsky,O. 1992. Chemical Varieties of Essential Oils from Elsholtzia polystachya from Two Different Locations in India. Planta Medica 58: 376-379.
Elsholtzia pilosa	Shoot	--	10.0	-0.45	*
Elsholtzia polystachya	Leaf	--	0.2	-0.31	Mathela,C.S., Melkani,A.B., Bisht,J.C., Pant,A.K., Bestmann,H.J., Erler,J., Kobold,U., Rauscher,J. and Vostrowsky,O. 1992. Chemical Varieties of Essential Oils from Elsholtzia polystachya from Two Different Locations in India. Planta Medica 58: 376-379.
Ephedra sinica	Shoot	--	21.0	-0.42	*
Eucalyptus siderophloia	Shoot	--	0.1	-0.48	Zrira, S. S., Benjlali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
Eucalyptus polyanthemos	Shoot	--	0.1	-0.48	Zrira, S. S., Benjlali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
Eucalyptus globulus	Fruit Essent. Oil	--	--		*
Eucalyptus moluccana	Shoot	--	145.0	-0.07	Zrira, S. S., Benjlali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
Eucalyptus maculata	Shoot	--	0.1	-0.48	Zrira, S. S., Benjlali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
Eucalyptus camaldulensis	Shoot	--	0.1	-0.48	Zrira, S. S., Benjlali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
Eucalyptus dealbata	Shoot	--	0.1	-0.48	Zrira, S. S., Benjlali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
Eucalyptus blakelyi	Shoot	--	0.1	-0.48	Zrira, S. S., Benjlali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
Eucalyptus tereticornis	Shoot	--	0.1	-0.48	Zrira, S. S., Benjlali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
Eucalyptus saligna	Shoot	--	40.0	-0.37	Zrira, S. S., Benjlali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
Eucalyptus oviformis	Shoot	--	30.0	-0.4	Zrira, S. S., Benjlali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
Eucalyptus melliodora	Shoot	--	0.1	-0.48	Zrira, S. S., Benjlali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
Eucalyptus globulus	Shoot	--	0.1	-0.48	Zrira, S. S., Benjlali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
Eucalyptus brassiana	Leaf	--	7.0	-0.31	Singh, A. K., Gupta, K. C., & Brophy, J. J. 1991. Chemical Constituents of the Leaf Essential Oil of Eucalyptus brassiana S. T. Blake. Journal of Essential Oil Res. 3: 45-7.

cladocalyx					Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
<i>Eucalyptus astringens</i>	Shoot	--	0.1	-0.48	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
<i>Eucalyptus sideroxylon</i>	Shoot	--	22.0	-0.42	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
<i>Eucalyptus punctata</i>	Shoot	--	45.0	-0.36	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
<i>Eucalyptus occidentalis</i>	Shoot	--	0.1	-0.48	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
<i>Eucalyptus maidenii</i>	Shoot	--	0.1	-0.48	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
<i>Eucalyptus diversicolor</i>	Shoot	--	0.1	-0.48	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
<i>Eucalyptus botryoides</i>	Shoot	--	0.1	-0.48	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
<i>Eucalyptus bosistoana</i>	Shoot	--	0.1	-0.48	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
<i>Eucalyptus citriodora</i>	Shoot	--	0.1	-0.48	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
<i>Eucalyptus albens</i>	Shoot	--	0.1	-0.48	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
<i>Foeniculum vulgare</i>	Seed Essent. Oil	--	--		Jim Duke's personal files.
<i>Foeniculum vulgare</i>	Plant	--	135.0	-0.3	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Foeniculum vulgare</i>	Seed	--	1.0	-0.51	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Foeniculum vulgare</i>	Fruit	--	1.0	-0.45	*
<i>Helianthus annuus</i>	Flower	--	--		Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
<i>Hypericum perforatum</i>	Plant	1.0	18.0	-0.47	*
<i>Hyptis suaveolens</i>	Shoot	--	--	-0.48	Mallavarapu, G.R., Ramesh, S., Kaul, P.N., Bhattacharya, A.K., and Rao, B.R.R. 1993. The Essential Oil of <i>Hyptis suaveolens</i> (L.) Poit. J. Ess. Oil Res. 5: 321.
<i>Hyptis suaveolens</i>	Shoot	--	--	-0.48	Mallavarapu, G.R., Ramesh, S., Kaul, P.N., Bhattacharya, A.K., and Rao, B.R.R. 1993. The Essential Oil of <i>Hyptis suaveolens</i> (L.) Poit. J. Ess. Oil Res. 5: 321.
<i>Hyptis suaveolens</i>	Plant	--	130.0	-0.31	Recently became Internat. J. Crude Drug Res. 28(1,2,3,4):1990, page 74.
<i>Hyssopus officinalis</i>	Leaf	1.0	1880.0	0.66	*
<i>Illicium verum</i>	Fruit	--	70.0	-0.07	*
<i>Juniperus communis</i>	Fruit	16.0	640.0	3.12	*
<i>Juniperus sabina</i>	Plant	--	--		*
<i>Laurus nobilis</i>	Leaf	14.0	300.0	-0.16	*
<i>Laurus nobilis</i>	Leaf Essent. Oil	--	--		*
<i>Lavandula latifolia</i>	Plant	4.0	11.0	-0.49	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Lavandula x hybrida</i>	Shoot	1.0	9.0	-0.46	Tucker, A.O., Maciarello, M.J., Angell, S., Espaillat, J.R., and French, E.C. 1993. The Essential Oil of <i>Lavandula x hybrida</i> Balb. ex Ging., a Distinct Hybrid from <i>L. x heterophylla</i> Poir. (Labiatae). J. Ess. Oil Res. 5: 443-445.
<i>Lavandula x intermedia</i>	Plant	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Lepechinia calycina</i>	Plant	--	115.0	-0.33	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Levisticum officinale</i>	Root	1.0	10.0	-0.62	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Lindera benzoin</i>	Twig	7.0	9.0		*
<i>Lindera benzoin</i>	Fruit	4.0	6.0	-0.43	*
<i>Litsea</i>	Shoot	60.0	75.0	-0.27	Tucker, et al, EB46(1):21-24.1992

Magnolia denudata	Leaf	--	--		*
Magnolia denudata	Bulb	--	--		*
Magnolia denudata	Twig	--	--		*
Magnolia denudata	Bark	--	--		*
Melaleuca alternifolia	Essential Oil	13000.0	99000.0	2.0	*
Melaleuca alternifolia	Resin, Exudate, Sap	--	--		*
Melaleuca alternifolia	Leaf Essent. Oil	--	4000.0	-0.4	*
Melaleuca alternifolia	Leaf	190.0	4375.0	1.95	*
Melaleuca alternifolia	Root Essent. Oil	--	92400.0	1.41	*
Mentha pulegium	Plant	--	20.0	-0.47	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Mentha longifolia	Shoot	--	170.0	-0.0	*
Mentha pulegium	Essential Oil	--	1000.0	-0.75	*
Mentha x piperita	Plant	--	20.0	-0.47	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Micromeria congesta	Leaf	--	2.0	-0.31	Kirimer, N., Ozek, T., and Baser, K.H.C. 1991. Composition of the Essential Oil of Micromeria congesta. J. Ess. Oil Res., 3: 387-393.
Micromeria varia	Shoot	--	3.0	-0.47	Pedro, L.G., et al. 1995. Composition of the Essential oil of Micromeria varia Benth. ssp. thymoides (Sol. ex Lowe) Perez var. thymoides, and endemic species of the Madeira Archipelago. flav. & Fragr. J. 10(3): 199-202.
Micromeria teneriffae	Leaf	--	90.0	-0.27	Kirimer, N., Ozek, T., and Baser, K.H.C. 1991. Composition of the Essential Oil of Micromeria congesta. J. Ess. Oil Res., 3: 387-393.
Micromeria fruticosa	Shoot	--	7.0	-0.46	Fleisher, Z. and Fleisher, A. 1991. The Essential Oil of Micromeria fruticosa (L.) Druce subsp. barbata (Boiss et. Ky.), P.H. Davis. Aromatic Plants of the Holy Land and the Sinai. Part VII. J. Ess. Oil Res 3: 477-479.
Micromeria juliana	Leaf	--	15.0	-0.3	Kirimer, N., Ozek, T., and Baser, K.H.C. 1991. Composition of the Essential Oil of Micromeria congesta. J. Ess. Oil Res., 3: 387-393.
Micromeria myrtifolia	Shoot	--	--	-0.48	Ozek, T., Kirimer, N., and Baser, K.H.C. 1992. Composition of the Essential Oil of Micromeria myrtifolia Boiss. et Hohen. J. Ess. Oil Res., 4: 79-80.
Micromeria fruticosa	Shoot	--	7.0	-0.46	Fleisher, Z. and Fleisher, A. 1991. The Essential Oil of Micromeria fruticosa (L.) Druce subsp. barbata (Boiss et. Ky.), P.H. Davis. Aromatic Plants of the Holy Land and the Sinai. Part VII. J. Ess. Oil Res 3: 477-479.
Micromeria varia	Shoot	--	3.0	-0.47	*
Micromeria thymifolia	Leaf	--	5.0	-0.31	Kirimer, N., Ozek, T., and Baser, K.H.C. 1991. Composition of the Essential Oil of Micromeria congesta. J. Ess. Oil Res., 3: 387-393.
Monarda didyma	Leaf	10.0	15.0	-0.3	*
Monarda citriodora	Flower	--	320.0	1.41	Collins, J.E., Bishop, C.D., Deans, S.G. and Svoboda, K.P. 1994. Composition of the Essential Oil from the Leaves and Flowers of Monarda citriodora var. citriodora grown in the United Kingdom. J. Ess. Oil Res. 6: 27-9.
Monarda fistulosa	Plant	3.0	3193.0	4.31	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Monarda didyma	Flower	--	25.0	-0.62	Flavour and Fragrance Journal, 6: 80.
Monarda didyma	Plant	5.0	40.0	-0.44	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Monarda citriodora	Leaf	--	120.0	-0.25	Collins, J.E., Bishop, C.D., Deans, S.G. and Svoboda, K.P. 1994. Composition of the Essential Oil from the Leaves and Flowers of Monarda citriodora var. citriodora grown in the United Kingdom. J. Ess. Oil Res. 6: 27-9.
Monarda punctata	Plant	550.0	1740.0	2.12	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Muraya koenigii	Leaf	--	65.0	-0.28	*
Myrciaria dubia	Fruit	--	--		*
Myristica fragrans	Seed Essent.	8000.0	40000.0	1.54	*

<i>Myristica fragrans</i>	Seed	400.0	3200.0	2.0	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Myristica fragrans</i>	Essential Oil	14000.0	42000.0	0.4	*
<i>Myrrhis odorata</i>	Essential Oil	--	100.0	-0.77	Hussain, R.A., et. al. 1990. Sweetening Agents of Plant Origin: Phenylpropanoid Constituents of Seven Sweet-Tasting Plants. <i>Econ. Bot.</i> 44(2): 174-182. Program Collab. Res. Pharm. Sci. Coll. Pharmacy Univ. Illinois at Chicago IL 60680, USA.
<i>Myrtus communis</i>	Shoot	--	4.0	-0.47	*
<i>Nepeta racemosa</i>	Shoot	--	13.0	-0.44	Baser, K.H.C., Ozek, T., Akgul, A. and Tumen, G. 1993. Composition of the Essential Oil of <i>Nepeta racemosa</i> Lam. <i>J. Ess. Oil Res.</i> 5: 215-7.
<i>Nepeta racemosa</i>	Shoot	--	13.0	-0.44	Baser, K.H.C., Ozek, T., Akgul, A. and Tumen, G. 1993. Composition of the Essential Oil of <i>Nepeta racemosa</i> Lam. <i>J. Ess. Oil Res.</i> 5: 215-7.
<i>Ocimum gratissimum</i>	Shoot	--	29.0	-0.4	Vostrowsky, O., Garbe, W., Bestmann, H.J. and Maia, J.G.S. 1990. Essential Oil of Alfavaca, <i>Ocimum gratissimum</i> , from Brazilian Amazon. <i>Zeitschr. Naturforschung</i> 45(C): 1073-6.
<i>Ocimum basilicum</i>	Shoot Essent. Oil	--	300.0	-0.96	*
<i>Ocimum basilicum</i>	Plant	1.0	10.0	-0.49	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
<i>Ocimum gratissimum</i>	Plant	60.0	370.0	0.06	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Ocimum basilicum</i>	Essential Oil	--	400.0	-0.77	*
<i>Ocimum basilicum</i>	Leaf Essent. Oil	--	600.0	-0.7	*
<i>Origanum majorana</i>	Plant	183.0	1830.0	2.26	*
<i>Origanum vulgare</i>	Shoot	--	495.0	0.91	Lagouri, V., Blekas, G., Tsimidou, M., Kokkini, S., and Boskou, D. 1993. Composition and Antioxidant Activity of Essential Oils from Oregano Plants Grown Wild in Greece. <i>Z. Lebensm Unters Forsch</i> 197: 20-23.
<i>Origanum vulgare</i>	Plant	--	2.0	-0.5	Sezik, E., Tumen, G., Kirimer, N., Ozek, T., and Baser, K.H.C. 1993. Essential Oil Composition of Four <i>Origanum vulgare</i> Subspecies of Anatolian Origin. <i>J. Ess. Oil Res.</i> , 5: 425-431.
<i>Origanum syriacum</i>	Shoot	--	990.0	2.29	Fleisher, A. & Fleisher, Z. 1991. Chemical Composition of <i>Origanum syriacum</i> L. Essential Oil. <i>J. Ess. Oil Res.</i> 3: 121-123.
<i>Origanum sipyleum</i>	Shoot	--	325.0	0.43	Baser, K.H.C., Ozek, T., Kurkuoglu, M. and Tumen, G. 1992. Composition of the Essential Oil of <i>Origanum sipyleum</i> of Turkish Origin. <i>J. Ess. Oil Res.</i> 4: 139-142.
<i>Origanum vulgare</i>	Plant	9.0	178.0	-0.23	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Origanum onites</i>	Shoot	--	350.0	0.5	Biondi, D., Cianci, P., Geraci, C. and Ruberto, G. 1993. Antimicrobial Activity and Chemical Composition of Essential Oils from Sicilian Aromatic Plants. <i>Flav. & Frag. J.</i> 8: 331-7.
<i>Origanum vulgare</i>	Plant	--	3.0	-0.5	Sezik, E., Tumen, G., Kirimer, N., Ozek, T., and Baser, K.H.C. 1993. Essential Oil Composition of Four <i>Origanum vulgare</i> Subspecies of Anatolian Origin. <i>J. Ess. Oil Res.</i> , 5: 425-431.
<i>Origanum vulgare</i>	Plant	--	1.0	-0.5	Sezik, E., Tumen, G., Kirimer, N., Ozek, T., and Baser, K.H.C. 1993. Essential Oil Composition of Four <i>Origanum vulgare</i> Subspecies of Anatolian Origin. <i>J. Ess. Oil Res.</i> , 5: 425-431.
<i>Origanum syriacum</i>	Shoot	--	990.0	2.29	Fleisher, A. & Fleisher, Z. 1991. Chemical Composition of <i>Origanum syriacum</i> L. Essential Oil. <i>J. Ess. Oil Res.</i> 3: 121-123.
<i>Origanum sipyleum</i>	Shoot	--	15.0	-0.44	Baser, K.H.C., Ozek, T., Kurkuoglu, M. and Tumen, G. 1992. Composition of the Essential Oil of <i>Origanum sipyleum</i> of Turkish Origin. <i>J. Ess. Oil Res.</i> 4: 139-142.
<i>Origanum majorana</i>	Essential Oil	--	68000.0	1.13	*
<i>Origanum vulgare</i>	Shoot Essent. Oil	6200.0	13700.0	0.09	*
<i>Origanum minutiflorum</i>	Shoot	125.0	145.0	-0.07	Baser, K.H.C., Tumen, G., Sezik, E. 1991. The Essential Oil of <i>Origanum minutiflorum</i> O. Schwarz and P.H. Davis. <i>J. Ess. Oil Res.</i> 3: 445-446.
<i>Origanum majorana</i>	Leaf	138.0	1620.0	0.52	*
<i>Origanum onites</i>	Plant	--	47.0	-0.43	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Origanum vulgare</i>	Plant	--	435.0	0.15	Sezik, E., Tumen, G., Kirimer, N., Ozek, T., and Baser, K.H.C. 1993. Essential Oil Composition of Four <i>Origanum vulgare</i> Subspecies of Anatolian Origin. <i>J. Ess. Oil Res.</i> , 5: 425-431.
<i>Origanum syriacum</i>	Shoot	--	990.0	2.29	Fleisher, A. & Fleisher, Z. 1991. Chemical Composition of <i>Origanum syriacum</i> L. Essential Oil. <i>J. Ess. Oil Res.</i> 3: 121-123.
<i>Origanum sipyleum</i>	Shoot	--	410.0	0.67	Baser, K.H.C., Ozek, T., Kurkuoglu, M. and Tumen, G. 1992. Composition of the Essential Oil of <i>Origanum sipyleum</i> of Turkish Origin. <i>J. Ess. Oil Res.</i> 4: 139-142.

<i>Origanum</i> <i>sipyleum</i>	Shoot	--	325.0	0.43	BASER, K.N.C., UZER, T., NURKUOGLU, M. and TURGEN, G. 1992. Composition of the Essential Oil of <i>Origanum sipyleum</i> of Turkish Origin. <i>J. Ess. Oil Res.</i> 4: 139-142.
<i>Origanum</i> <i>majorana</i>	Leaf Essent. Oil	--	20000.0	1.0	*
<i>Origanum</i> <i>onites</i>	Shoot	--	350.0	0.5	Biondi, D., Cianci, P., Geraci, C. and Ruberto, G. 1993. Antimicrobial Activity and Chemical Composition of Essential Oils from Sicilian Aromatic Plants. <i>Flav. & Frag. J.</i> 8: 331-7.
<i>Pastinaca</i> <i>sativa</i>	Root	--	--		*
<i>Pavonia</i> <i>odorata</i>	Root	--	250.0	1.73	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Petroselinum</i> <i>crispum</i>	Seed Essent. Oil	--	--		*
<i>Petroselinum</i> <i>crispum</i>	Leaf	--	0.24	-0.31	*
<i>Petroselinum</i> <i>crispum</i>	Fruit Essent. Oil	--	18000.0	1.41	*
<i>Peumus</i> <i>boldus</i>	Leaf	3.0	12.0	-0.31	*
<i>Pimenta</i> <i>dioica</i>	Fruit	--	3.0	-0.44	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pimenta</i> <i>dioica</i>	Leaf	--	11.0	-0.31	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pimpinella</i> <i>anisum</i>	Essential Oil	--	--		*
<i>Pinus</i> <i>sylvestris</i>	Leaf	--	--		*
<i>Pinus</i> <i>sylvestris</i>	Essential Oil	--	--		*
<i>Pinus</i> <i>sylvestris</i>	Root	--	--		Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
<i>Pinus</i> <i>sylvestris</i>	Leaf Essent. Oil	--	34500.0	2.27	*
<i>Piper</i> <i>auritum</i>	Leaf	--	--		Tramil
<i>Piper</i> <i>nigrum</i>	Seed Essent. Oil	--	--		*
<i>Piper</i> <i>cubeba</i>	Fruit	--	--		Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
<i>Piper</i> <i>nigrum</i>	Fruit Essent. Oil	--	3000.0	-0.57	*
<i>Piper</i> <i>cubeba</i>	Fruit Essent. Oil	--	--		*
<i>Piper</i> <i>nigrum</i>	Fruit	--	--		*
<i>Porophyllum</i> <i>ruderale</i>	Plant	55.0	85.0	-0.37	Loayza, I., de Groot, W., Lorenzo, D. et al. 1999. Composition of the essential oil of <i>Porophyllum ruderale</i> (Jacq.) Cass. from Bolivia. <i>Flav. & Fragr. J.</i> 14: 393-8.
<i>Ptychopetalum</i> <i>olacoides</i>	Root Essent. Oil	--	2000.0	-0.77	Uber Bucek, E., Fournier, G., Dadoun, H. 1987. Volatile Constituents of <i>Ptychopetalum olacoides</i> Root Oil. <i>Planta Med.</i> 53, 2: 231.
<i>Pycnanthemum</i> <i>loominii</i>	Shoot	33.0	168.0	-0.01	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Ravensara</i> <i>aromatica</i>	Leaf	--	80.0	-0.27	*
<i>Ribes</i> <i>nigrum</i>	Fruit	--	--		List, P.H. and Horhammer, L. Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Rosmarinus</i> <i>officinalis</i>	Plant	4.0	555.0	0.33	*
<i>Rosmarinus</i> <i>officinalis</i>	Shoot	200.0	540.0	1.03	Soriano Cano, M.C., Sotomayor Sanchez, J.A., Sanchez Gomez, P. and Garcia Vallejo, M.C. 1993. Essential Oils of the <i>Rosmarinus eriocalyx-tomentosus</i> Complex in Southeast Spain. <i>J. Ess. Oil Res.</i> 5: 243-246.
<i>Rosmarinus</i> <i>tomentosus</i>	Shoot	16.0	40.0	-0.37	Soriano Cano, M.C., Sotomayor Sanchez, J.A., Sanchez Gomez, P. and Garcia Vallejo, M.C. 1993. Essential Oils of the <i>Rosmarinus eriocalyx-tomentosus</i> Complex in Southeast Spain. <i>J. Ess. Oil Res.</i> 5: 243-246.
<i>Rosmarinus</i> <i>officinalis</i>	Shoot Essent. Oil	--	32900.0	1.6	*
<i>Rosmarinus</i>	Shoot	150.0	550.0	1.06	Soriano Cano, M.C., Sotomayor Sanchez, J.A., Sanchez Gomez, P. and Garcia Vallejo, M.C. 1993.

					243-246.
Rosmarinus officinalis	Leaf	--	4.0	-0.31	Soliman, F.M., El-Kashoury, M.M., Fathy, M.M. and Gonaid, M.H. 1994. Analysis and Biological Activity of the Essential Oil of Rosmarinus officinalis L. from Egypt. Flavour and Fragrance J. 9: 29-33.
Rosmarinus officinalis	Shoot	185.0	555.0	1.07	Soriano Cano, M.C., Sotomayor Sanchez, J.A., Sanchez Gomez, P. and Garcia Vallejo, M.C. 1993. Essential Oils of the Rosmarinus eriocalyx-tomentosus Complex in Southeast Spain. J. Ess. Oil Res. 5: 243-246.
Rosmarinus x mendizabalii	Shoot	43.0	100.0	-0.2	Soriano Cano, M.C., Sotomayor Sanchez, J.A., Sanchez Gomez, P. and Garcia Vallejo, M.C. 1993. Essential Oils of the Rosmarinus eriocalyx-tomentosus Complex in Southeast Spain. J. Ess. Oil Res. 5: 243-246.
Rosmarinus officinalis	Leaf Essent. Oil	--	3000.0	-0.49	*
Rosmarinus eriocalyx	Shoot	150.0	550.0	1.06	Soriano Cano, M.C., Sotomayor Sanchez, J.A., Sanchez Gomez, P. and Garcia Vallejo, M.C. 1993. Essential Oils of the Rosmarinus eriocalyx-tomentosus Complex in Southeast Spain. J. Ess. Oil Res. 5: 243-246.
Rosmarinus officinalis	Shoot	--	5.0	-0.47	Tucker, A. O. and Maciarelli, M. J. 1998. The essential oils of some rosemary cultivars. Flavor and Fragrance Journal, 1: 137-142. 1986.
Rosmarinus officinalis	Leaf	--	4.0	-0.31	Soliman, F.M., El-Kashoury, M.M., Fathy, M.M. and Gonaid, M.H. 1994. Analysis and Biological Activity of the Essential Oil of Rosmarinus officinalis L. from Egypt. Flavour and Fragrance J. 9: 29-33.
Rosmarinus x lavandulaceus	Shoot	13.0	140.0	-0.09	Soriano Cano, M.C., Sotomayor Sanchez, J.A., Sanchez Gomez, P. and Garcia Vallejo, M.C. 1993. Essential Oils of the Rosmarinus eriocalyx-tomentosus Complex in Southeast Spain. J. Ess. Oil Res. 5: 243-246.
Rosmarinus officinalis	Resin, Exudate, Sap	--	--		*
Salvia officinalis	Et	--	1000.0		*
Salvia dorisiana	Shoot	2.7	3.7	-0.47	Tucker, A.O. & Maciarelli, M.J. 1994. The Essential Oil of Salvia dorisiana Standley. J. Ess. Oil Res. 6: 97-8.
Salvia officinalis	Leaf Essent. Oil	--	2000.0	-0.58	*
Salvia officinalis	Leaf	10.0	56.0	-0.28	*
Salvia officinalis	Essential Oil	--	11200.0	-0.46	*
Sassafras albidum	Leaf	--	--	-0.31	*
Satureja obovata	Leaf	--	55.0	-0.28	Arrebola, M.L., Navaro, M.C., Jimenez, J. and Ocana, F.A. 1994. Variations in Yield and Composition of the Essential Oil of Satureja obovata. Phytochemistry 35(1): 83.
Satureja obovata	Leaf	--	235.0	-0.19	Arrebola, M.L., Navaro, M.C., Jimenez, J. and Ocana, F.A. 1994. Variations in Yield and Composition of the Essential Oil of Satureja obovata. Phytochemistry 35(1): 83.
Satureja hortensis	Plant	--	--		List, P.H. and Horhammer, L. Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Satureja subspicata	Plant	--	4.0	-0.5	Stanic, G., Petricic, J., and Blazevic, N. 1991. Gas Chromatographic Investigations of Essential Oils of Satureja montana and Satureja subspicata from Yugoslavia. J. Ess. Oil Res., 3: 153-158.
Satureja obovata	Leaf	--	120.0	-0.25	Arrebola, M.L., Navaro, M.C., Jimenez, J. and Ocana, F.A. 1994. Variations in Yield and Composition of the Essential Oil of Satureja obovata. Phytochemistry 35(1): 83.
Satureja douglasii	Plant	--	13.0	-0.48	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Satureja cuneifolia	Shoot	--	315.0	0.4	Tumen, G. 1991. The Volatile Constituents of Satureja cuneifolia. J. Ess. Oil Res., 3: 365-366.
Satureja obovata	Shoot	60.0	170.0	-0.0	Fitoterapia No.60: 277.
Satureja obovata	Leaf	--	235.0	-0.19	Arrebola, M.L., Navaro, M.C., Jimenez, J. and Ocana, F.A. 1994. Variations in Yield and Composition of the Essential Oil of Satureja obovata. Phytochemistry 35(1): 83.
Satureja montana	Plant	15.0	410.0	0.12	*
Satureja thymbra	Shoot	--	555.0	1.07	Lagouri, V., Blekas, G., Tsimidou, M., Kokkini, S., and Boskou, D. 1993. Composition and Antioxidant Activity of Essential Oils from Oregano Plants Grown Wild in Greece. Z. Lebensm Unters Forsch 197: 20-23.
Satureja cilicica	Shoot	--	130.0	-0.12	Tumen, G. Baser, K.H.C. and Kirimer, N. 1993. The Essential Oil of Satureja cilicica P.H. Davis. J. Ess. Oil Res. 5: 547-548.
Sideritis mugronensis	Flower	--	1.0	-0.79	Manez, S., Jimenez, A., and Villar, A. 1991. Volatiles of Sideritis mugronensis Flower and Leaf. J. Ess. Oil Res., 3: 395-397.
Sideritis pauli	Shoot	--	3.0	-0.47	Burzaco, A., Velasco-Negueruela, A. and Perez-Alonso, M.J. 1992. Essential Oil Analysis of Sideritis pauli Pau. FFJ7: 47-8. 1992.
Sideritis	Plant	2.0	12.0	-0.48	J. Essential Oil, 4: 533.

<i>Sideritis mugronensis</i>	Leaf	10.0	15.0	-0.3	Manez, S., Jimenez, A., and Villar, A. 1991. Volatiles of <i>Sideritis mugronensis</i> Flower and Leaf. <i>J. Ess. Oil Res.</i> , 3: 395-397.
<i>Tanacetum parthenium</i>	Shoot	--	45.0	-0.36	Hendriks, H., Bos, R., and Woerdenbag, H. J. 1996. The Essential Oil of <i>Tanacetum parthenium</i> (L.) Schultz-Bip. <i>Flavor and Fragrance Journal</i> 11(6): 367-71.
<i>Tanacetum vulgare</i>	Plant	40.0	200.0	-0.2	*
<i>Tanacetum parthenium</i>	Plant	--	--		*
<i>Teucrium kotschyanum</i>	Leaf	--	--	-0.31	Arnold, N., Bellomaria, B., Velentini G. and Rafaiani, S.M. 1991. Comparative Study on Essential Oil of Some <i>Teucrium</i> Species from Cyprus. <i>J. Ethnopharm.</i> 35: 105-113.
<i>Teucrium cypricum</i>	Leaf	--	130.0	-0.25	Arnold, N., Bellomaria, B., Velentini G. and Rafaiani, S.M. 1991. Comparative Study on Essential Oil of Some <i>Teucrium</i> Species from Cyprus. <i>J. Ethnopharm.</i> 35: 105-113.
<i>Teucrium polium</i>	Shoot	--	2.0	-0.48	Perez-Alonso, M.J. Velasco-Negueruela, A. and Lopez-Saez, J.A. 1993. The Essential Oils of Two Iberian <i>Teucrium</i> Species. <i>J. Ess. Oil Res.</i> 5: 397-402.
<i>Teucrium gnaphalodes</i>	Shoot	--	0.5	-0.48	Perez-Alonso, M.J. Velasco-Negueruela, A. and Lopez-Saez, J.A. 1993. The Essential Oils of Two Iberian <i>Teucrium</i> Species. <i>J. Ess. Oil Res.</i> 5: 397-402.
<i>Teucrium micropodioides</i>	Leaf	--	--	-0.31	Arnold, N., Bellomaria, B., Velentini G. and Rafaiani, S.M. 1991. Comparative Study on Essential Oil of Some <i>Teucrium</i> Species from Cyprus. <i>J. Ethnopharm.</i> 35: 105-113.
<i>Teucrium divaricatum</i>	Leaf	--	--	-0.31	Arnold, N., Bellomaria, B., Velentini G. and Rafaiani, S.M. 1991. Comparative Study on Essential Oil of Some <i>Teucrium</i> Species from Cyprus. <i>J. Ethnopharm.</i> 35: 105-113.
<i>Thymus serpyllum</i>	Plant	21.0	344.0	0.02	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Thymus cilicicus</i>	Shoot	--	39.0	-0.37	Tumen, G., Koyuncu, M., Kirimer, N., and Baser, K.H.C. 1994. Composition of the Essential Oil of <i>Thymus cilicicus</i> Boiss. & Bal. <i>J. Ess. Oil Res.</i> 6: 97-8.
<i>Thymus capitatus</i>	Plant	10.0	120.0	-0.32	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Thymus vulgaris</i>	Essential Oil	--	--		*
<i>Thymus longicaulis</i>	Shoot	--	2.5	-0.47	Baser, K.H.C., Ozek, T., Kirimer, N. and Tumen, G. 1993. The Occurrence of Three Chemotypes of <i>Thymus longicaulis</i> C. Presl subsp. <i>longicaulis</i> in the same Population. <i>J. Ess. Oil Res.</i> 5: 291-5.
<i>Thymus saturejoides</i>	Shoot	--	40.0	-0.37	Tantaoui-Elaraki, A., Lattaoui, N., Errifi, A. and Benjlali, B. 1993. Composition and Antimicrobial Activity of the Essential Oils of <i>Thymus broussonettii</i> , <i>T. zygis</i> and <i>T. saturejoides</i> . <i>J. Ess. Oil Res.</i> 5: 45-53.
<i>Thymus masticina</i>	Plant	--	1.0	-0.5	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Thymus broussonettii</i>	Shoot	--	410.0	0.67	Tantaoui-Elaraki, A., Lattaoui, N., Errifi, A. and Benjlali, B. 1993. Composition and Antimicrobial Activity of the Essential Oils of <i>Thymus broussonettii</i> , <i>T. zygis</i> and <i>T. saturejoides</i> . <i>J. Ess. Oil Res.</i> 5: 45-53.
<i>Thymus zygis</i>	Shoot	--	390.0	0.61	Tantaoui-Elaraki, A., Lattaoui, N., Errifi, A. and Benjlali, B. 1993. Composition and Antimicrobial Activity of the Essential Oils of <i>Thymus broussonettii</i> , <i>T. zygis</i> and <i>T. saturejoides</i> . <i>J. Ess. Oil Res.</i> 5: 45-53.
<i>Thymus longicaulis</i>	Shoot	7.0	60.0	-0.31	Baser, K.H.C., Ozek, T., Kirimer, N. and Tumen, G. 1993. The Occurrence of Three Chemotypes of <i>Thymus longicaulis</i> C. Presl subsp. <i>longicaulis</i> in the same Population. <i>J. Ess. Oil Res.</i> 5: 291-5.
<i>Thymus vulgaris</i>	Plant	--	--		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
<i>Thymus riatarum</i>	Shoot	--	215.0	0.12	Iglesias, J., Vila, R., Canigueral, S., Bellakdhar, and II Idrissi, A. 1991. Analysis of the Essential Oil of <i>Thymus riatarum</i> . <i>J. Ess. Oil Res.</i> 3: 43-4.
<i>Thymus capitatus</i>	Shoot	--	4.0	-0.47	Biondi, D., Cianci, P., Geraci, C. and Ruberto, G. 1993. Antimicrobial Activity and Chemical Composition of Essential Oils from Sicilian Aromatic Plants. <i>Flav. & Frag. J.</i> 8: 331-7.
<i>Thymus zygis</i>	Shoot	0.1	210.0	0.11	De Cunha, A.P. and Salguiero, L.R. 1991. The Chemical Polymorphism of <i>Thymus zygis</i> ssp. <i>sylvestris</i> from Central Portugal. <i>J. Ess. Oil Res.</i> 3: 409-12.
<i>Thymus longicaulis</i>	Shoot	--	2.5	-0.47	Baser, K.H.C., Ozek, T., Kirimer, N. and Tumen, G. 1993. The Occurrence of Three Chemotypes of <i>Thymus longicaulis</i> C. Presl subsp. <i>longicaulis</i> in the same Population. <i>J. Ess. Oil Res.</i> 5: 291-5.
<i>Trichostemma dichotomum</i>	Shoot	--	5.5	-0.47	Tucker, A.O. and Maciarello, M.J. 1990. The Essential Oil of <i>Trichostemma dichotomum</i> . <i>J. Ess. Oil Res.</i> 2: 149-150.
<i>Umbellularia californica</i>	Plant	70.0	720.0	0.58	*
<i>Valeriana officinalis</i>	Leaf	--	15.0	-0.3	Father Nature's Farmacy: The aggregate of all these three-letter citations.
<i>Valeriana officinalis</i>	Leaf Essent. Oil	--	600.0	-0.7	*
<i>Zingiber officinale</i>	Rhizome	0.5	35.0	1.0	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
<i>Zingiber officinale</i>	Rhizome Essent. Oil	--	700.0		*